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ATIC MCL 487/1

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AF Cambridge Res Center

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NLL RTS 2063

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MLL RFB 2110

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*At Cambridge Research Laboratories
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DETERMINATION OF THE MAGNETIC FIELDS OF
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(foreign text included) 2 refs. [CSIRO] Trans. no. 5154.
Order from OTS or SLA \$1.60 61-19680

Trans. of ~~Steshenko, N. V.~~ ~~Krymskaya~~
~~Astronomicheskaya Observatoriya, Izvestiya~~ 1959,
v. 22, p. 49-55.

DESCRIPTORS: *Magnetic fields, Determination, Sun,
Particles, Spectrographic analysis, Solar spectrum,
Solar atmosphere.

The results of an attempt to determine the magnetic
fields of granules in undisturbed solar regions are
given. Both σ -components of the Zeeman splitting were
photographed simultaneously, this giving a possibility
of excluding the influence of the Doppler line shifts on
the results of measurements. The precision of mea-
(Astronomy--Astrophysics, TT, v. 6, no. 4) (over)

61-19680

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- II. CSIRO Trans-5154
- III. Commonwealth Scientific
and Industrial Research
Organization (Australia)

177687

Office of Technical Services

Nikulin, N. S.

IMPROVEMENTS TO THE MAGNETOGRAPH OF
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(Nekotorye Usovsheniya Magnitografa

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M. Slade. [1961] [12]p. (foreign text included)

3 refs. [CSIRO] Trans. 5155.

Order from OTS or SLA \$1.60

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Trans. of [Akademiya Nauk SSSR]. Krymskaya
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v. 22, p. 3-8.

DESCRIPTORS: *Magnetic fields, Measurement,
Instrumentation, Astronomical observatories.

(Astronomy, TT, v. 6, no. 8)

61-23978

- I. Title: Magnetograph
- I. Nikulin, N. S.
- II. CSIRO Trans-5155
- III. Commonwealth Scientific
and Industrial Research
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Modulation of the Photomultiplier Amplification Factor in the
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NULL/8731.9

NASA TT F-138

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The Motion of Ca^+ in the Chromosphere and the
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AF Cambridge

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Aug 65

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NHSH TTF-144 (9212201)

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AEC-AD-428086

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May 64
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JPRS 29977

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May 65

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*FTD-MT-67-25

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Sci-Ear Sci & Astron
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Aug 65

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Fisheries Research Board of Canada
Nanaimo Station

Sci

Feb 64

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Air Info Div

Sci- Aerodynamics, propellers

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*ATIC MCL-1039/1

Sci - Elec
May 61

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PI002142671
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Aug 67

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Sept 68

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P100264568-V
FTD-HT-23-552-67

Sci/Elect
Oct 68

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1963, pp 94-106.
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Sci - Elec
Apr 65

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FTD TT 65-1548

Sci-Phys
Mar 67

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Sci-Agri

Aug 63

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OTS 60-51149
PL-480

Sci - Biol

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Jul 62

PST 357

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USSR
Scientific - Biology
G. M. M. M.

USDA

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Mar 56

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Sci-Materials
Jan 67

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BD 87-61

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~~Source~~

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8 Jan 62

Zhurbitskii, Z. I.

ON THE RESPONSIVENESS OF THE SUGAR BEET
TO FERTILIZATION WITH CARBON DIOXIDE. Pre-
liminary Communication. [1963] 30p. (figs. omitted)
29 refs.

Order from OTS or SLA \$2.60

63-16078

Trans. of [Moskovskaya] Sel'skokhoz[yaistvennaya]
Akad[emiya] [Izv[estiya]] (USSR) 1928, no. 2, p. 427-444

DESCRIPTORS: *Beets, *Carbon dioxide, *Fertilizers,
Soils, Plants (Botany)

For abstract see Chemical Abstracts 25: 4962, 1931.

(Agriculture--Plant Cultivation, TT, v. 10, no. 11)

63-16078

I. Zhurbitskii, Z. I.

Office of Technical Services

Zhilinskii, V. A.
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(Obrabotka Opytnykh Materialov po Nablyudeniym za Vpityvaniem Vody v Pochvogrunt). 1963, 12p.
PL-480 Agr.
Order from OTS \$0.50

63-11016

Trans. of [Moskovskaya] Sel'skokhozyaistvennaya Akademiya, [Izvestiya (USSR) 1956, no. 2(12) p. 131-140.]

DESCRIPTORS: Mathematical analysis, Water, *Absorption, *Soils, *Soil mechanics.

The purpose of the article is to clarify thoroughly the phenomenon of water absorption by soil and to establish the indices required for the solution of practical problems of soil reclamation. (Author)
(Agriculture--Plant Cultivation, TT, v. 10, no. 3)

63-11016

- I. Zhilinskii, V. A.
- II. PL-480 Agr (63-11016)
- III. National Science Foundation, Washington, D. C.

Office of Technical Services

The Methods of Studying the Growth of Absorbing
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*PL-430

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Rumyantsev, V. I.
AN EXPERIMENTAL STUDY OF THE AGROTECHNI-
CAL ROLE OF FIELD -PROTECTIVE FOREST
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60-51004

Trans. of (Moskovskaya Sel'skokhozyajstvennaya
Akademiya) Izvestiya (USSR) 1958, no. 4 (23) p. 89-98

DESCRIPTORS: *Agriculture, Plants, Trees,
*Forestry, *Fertility, Fertilizers, *Soils, *Moisture,
Snow, *Erosion, Deserts, Water, Wind, Water entry.

Wind-penetrable shelter belts in the southeastern
region contribute toward a more even distribution of
(Agriculture, TT, v. 7, no. 4)
(over)

60-51004

I. Rumyantsev, V. I.
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III. National Science
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PLANTS. [1961] [19]p. 84 refs.
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61-23031

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A[kademiya]. [Izvestiya] (USSR) 1959, no. 2(27)
p. 57-74.

DESCRIPTORS: *Proteins, Synthesis, *Plants, Theory,
Nitrogen, Metabolism, Genetics.

(Biological Sciences--Botany, TT, v. 7, no. 12)

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PLANTS TO ELECTRICAL IRRITATIONS (Elektro-
fiziologicheskaya Kharakteristika Razdrazhimosti
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Irritability of Plants. 13 Nov 61, 26p. 20 refs.
Trans. A-1312.
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Akademiya. Izvestiya (USSR) 1961, no. 2(39) p. 7-19.

DESCRIPTORS: *Plants, Cells (Biology) Tissues
(Biology) Metabolism, Excitation, Direct currents,
Intensity, *Electrical effects.

An ability is inherent in the tissues of higher plants to
pass into the state of excitation under the influence
(Biological Sciences--Botany, TT, v. 7, no. 12) (over)

62-13506

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- III. Title: Electro-
physiological...
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A NEW GROUP OF BIOLOGICALLY IMPORTANT
COMPOUNDS (NUCLEOTIDE-PEPTIDES) (Nukeotid-
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Order from OTS or SLA \$3.60 63-15461

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Akademiya. Izvestiya (USSR) 1962, no. 2(45)
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DESCRIPTORS: Biochemistry, *Nucleic acids, Cyto-
chemistry, *Nucleotides, *Peptides, Ribonucleic acids,
Synthesis Deoxyribonucleic acids.

(Biological Sciences--Biochemistry, TT, v. 9, no. 11)

63-15461

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Biological and Ecological Studies of the Potato-Moth
Gnorimoschema (Phthorimaea) Operculella Zeller and
Means for its Control in Bulgaria, by M. Stanev,
A. Kajtazov.

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Aug 67

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Stability of Hydrotechnical Structures Built on
Permeable ~~and~~ Soils, by R. N. Davidenkov, 29 pp.

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Sci Tr Center RT-259

Scientific - Engineering

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Method of Unsteady Flow Computations Proposed
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Elutriation Scales Used in Grain-Size Distribution
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~~Hydrodynamic~~ Hydromechanical Method of Solution of
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Scientific - Engineering

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Ground-Water Movement Under Skm Structures Equipped With Drainage Openings, by N. T. Meleshchenko, 51 pp.

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12 pp.

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Direct Current Institute Reports, by N. N.
Scherdrin, et al.

RUSSIAN, monograph, Izvestiya NII Postoyannogo
Toka, 1957.

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Melik-Sarkisov, B. S.

PROTECTION OF A DIRECT CURRENT TRANSMISSION LINE. [1960] 9p. 5 refs. M 1095.
Order from LC or SLA ml\$1.80, ph\$1.80 60-13900

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p. 84-95.

The article is a survey of the protective devices used in high voltage dc lines. It is based on material relating to the Kashira-Moscow dc transmission line and on studies elaborated for the Stalingrad-Donbass transmission line.

(Engineering--Electrical, TT, v. 5, no. 5)

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I. Melik-Sarkisov, B. S.
II. DSIR LLU M.1095

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HIGH VOLTAGE DIRECT CURRENT TRANSMISSION:
THE INVERTOR COMPOUNDING DEVICE OF THE
KASHIRA-MOSCOW TRANSMISSION LINE. [1960]
[11]p. M 1096.
Order from LC or SLA m\$2.40, ph\$3.30 60-13901

Trans. of Nauchno-Issledovatel'skiy Institut
Postoyannogo Toka, Intensivnyy (USSR) 1957, v. 2,
p. 96-111.

(Engineering--Electrical, TT, v. 5, no. 5)

60-13901

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pecific Parameters of the Equipment of the Converter
Substations of the Direct Current Transmission Line,
Kashira-Moscow, by M. G. Shekhtman, N. A. Shipulina.

RUSSIAN, per, Iz Nauch-Issled Instituta Postoyannogo
Elektrika, Vol III, 1958, pp 129-142.

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sci - Electricity

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Investigation of the Operation of Shunting Devices
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B. S. Melik-Sarkisov, *1171*

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Vol 3, 1958

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INVESTIGATION OF A BRIDGE CIRCUIT WITH
CAPACITORS CONNECTED IN SERIES WITH THE
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formatorov). Sep 61 [24]p. RTS 1907.
Order from OTS or SLA \$2.60

61-28165

Trans. of N[aucho]-I[ssledovatel'skii] I[nstitut]
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p. 234-254.

DESCRIPTORS: *Electric bridges, *Capacitors,
*Electric connectors, *Transformers, Design,
Equations, *Electronic circuits, Electric currents,
Alternating current, Commutators, Electrical
equipment, Voltage.

(Engineering--Electrical, TT, v. 6, no. 12) (over)

61-28165

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- II. RTS-1907
- III. Department of Scientific
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The Main Features of a Circuit With Capacitor
Connection of the Bridge Converters in DC
Transmission, ~~XXXXXXXX~~ by N. M. Mel'gunov.

RUSSIAN, per, Iz Ak Nauk Issled Inst
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NLL/RTS 1908

Sci - Electricity

Apr 62

Operation and Control of a DC Transmission
System With Intermediate Substations Con-
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Postoyannogo Toka, No 4, 1959, pp 5-18.

NLL/RTS 1962

Sci - Electricity

Apr 62

Operation I of a Three-Phase Bridge Inverter
Fed From Two Single-Phase Transformers With
Windings Connected to Form an "Open Delta"
System, by A. M. Pintsov, Yu. S. Kraichik.

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NLL/RTS 19623

Sci - Electron

Apr 62

Choice of Minimum Permissible Air Gaps
for Protection Against Internal Surges
in Lines Substations and Certain Equip-
ment in the 220 - 700 kV Range, by
N. N. ~~XXXXX~~ Tikhodeyev, A. N. Tushnov,

RUSSIAN, per, Iz Nauch-Issled Inst
Postoyannogo Toka, No 4,
1959, PP 1245-152.

MLL M.4022

Sci - Engr
Feb 62

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Operating Cycles and External Characteristics
of a Twelve-Phase Cascade-Bridge Conversion
Circuit, by M. G. Shekhtman.

RUSSIAN, per, Iz Ak Nauk Issled Inst
Postoyannogo Toka, No 5, 1960, pp 23-63.

MLL/RTS 1899

Sci - Electricity

OT 60-1110

Apr 62

Smirnov, G. V.
CORRECTOR FOR COMPOUNDING SYSTEM, tr. by
L. Gradasoff, July 62 [8]p. 1 ref.
Order from OTS or SLA \$1.10 62-32775

Trans. of Nauchno-Issledovatel'skii Institut Postoyannogo Toka, Vzveshiva (USSR) 1960, v. 6, p. 149-154.

DESCRIPTORS: *Transmission lines, Attenuation, Distortion, Corrections, Electrical equipment.

To insure a stable and economic performance of inverter on d-c transmission, it is necessary to maintain automatically the magnitude of extinction angles of the valves. This article describes one of the several alternate designs of corrector whose purpose is to reset the angle of extinction when it departs from a predetermined value.

(Engineering--Electrical, TT, v. 10, no. 7)

62-32775

I. Smirnov, G. V.
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